

6"X ½"₧ SEE TABLE FOR LENGTH ``L''(TYP.)

SECTION A-A

## STRUCTURAL STEEL NOTES

ALL INTERMEDIATE DIAPHRAGM STEEL AND CONNECTOR PLATES SHALL BE AASHTO M270 GRADE 50 OR APPROVED EQUAL.

TENSION ON THE ASTM A325 BOLTS THROUGH THE ANGLE MEMBER SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

TENSION ON THE ASTM A449 BOLTS THROUGH THE GIRDER WEB SHALL BE SNUG TIGHTENED FOLLOWED BY AN ADDITIONAL  $\frac{1}{4}$  TURN.

THE PLATES, BENT PLATES, AND ANGLES SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

GALVANIZE THE HIGH STRENGTH BOLTS, NUTS, WASHERS AND DIRECT TENSION INDICATORS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

USE AN ASTM F436 HARDENED WASHER WITH STANDARD AND SLOTTED HOLES UNDER EACH BOLT HEAD AND NUT.

FOR BOLTS THROUGH THE GIRDER WEB, PROVIDE SUFFICIENT LENGTH OF THREADS ON ALL BOLTS TO ACCOMMODATE WASHERS AND THE THICKNESS OF CONNECTING MEMBER PLUS AT LEAST 1/4" PROJECTION BEYOND THE NUT.

INTERMEDIATE DIAPHRAGM ASSEMBLY SHALL COMPLY WITH SECTION 1072 OF THE STANDARD SPECIFICATIONS.

SUBMIT TWO SETS OF WORKING DRAWINGS FOR THE INTERMEDIATE DIAPHRAGM ASSEMBLY FOR REVIEW, COMMENTS AND ACCEPTANCE. AFTER REVIEW, COMMENTS, AND ACCEPTANCE, SUBMIT SEVEN SETS FOR DISTRIBUTION.

IN THE EXTERIOR BAYS, PLACE TEMPORARY STRUTS BETWEEN PRESTRESSED GIRDERS ADJACENT TO THE STEEL DIAPHRAGMS. STRUTS SHALL REMAIN IN PLACE 3 DAYS AFTER CONCRETE IS PLACED.

THE COST OF THE STEEL DIAPHRAGMS AND ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE GIRDERS.

## TABLE

GIRDER TYPE	DIM ``A''	DIM "B"	DIM "C"	DIM "L"
63" BULB TEE	1′-5′′	1'-43/4''	1'-4''	3′-5′′

FOR BOLT CONNECTION
—SEE TYPICAL BOLT WITH
DTI ASSEMBLY DETAIL

CONNECTION DETAILS

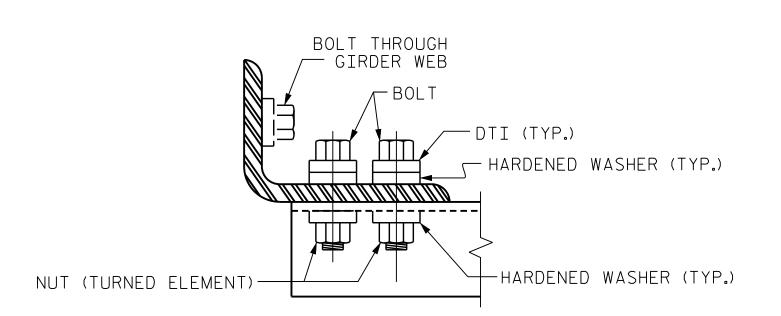
(FOR SKEW = 90°)

SECTION B-B

 $\frac{7}{8}$ " Ø H.S. BOLT, —

2 HARDENED WASHERS AND DTI (TYP.)

– L 3 X 3 X  $\frac{5}{16}$ 



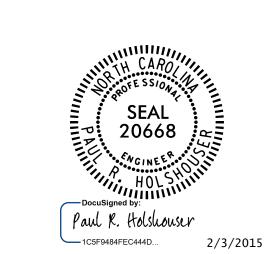
BOLT WITH DTI ASSEMBLY DETAIL

PROJECT NO. R-2514B

ONSLOW/JONES COUNTY

STATION: 173+54.46 -L-

SHEET 8 OF 8



DEPARTMENT OF TRANSPORTATION

RALEIGH

STANDARD

INTERMEDIATE STEEL DIAPHRAGMS FOR 63" MODIFIED BULB TEE PRESTRESSED CONCRETE GIRDERS

The LOUIS BERGER GROUP, Inc..
1001 Wade Avenue, Suite 400
Raleigh, NC 27605-3322
NC COA No. F-0840

REVISIONS SHEET NO.

NO. BY: DATE: NO. BY: DATE:

1 3 TOTAL SHEETS
2 75

STD. NO. PCG11 str. #5



ASSEMBLED BY :

DRAWN BY: RWW II/09

CHECKED BY : GM II/09

M. HOGAN

R. COFFMAN

DESIGN ENGINEER OF RECORD : P. HOLSHOUSER DATE : 10/14

ADDED II/23/09R

DATE: 03/14

DATE: 07/14

MAA/GM



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Envelope Summary Events	Status	Timestamps
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